

TOY GUN

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0001] The present invention relates to a toy gun, which is provided with a plurality of protrusions formed on a rear end's circumference of a top gun-body for being inserted and engaged with a plurality of corresponding protrusions formed on a rear end's inner edge of a bottom gun-body so that the combination stability of the top and the bottom gun-body of the toy gun could be effectively strengthened.

2. The Prior Arts

[0002] As illustrated in Figures 1-4, the structure of a toy gun is usually comprised of a butt 1, gun body 2, grip 3, handguard 4, and magazine 5, in which the gun body 2 is further divided into a top gun-body 21 and a bottom gun-body 22, in which a combining hole 211 of a protrusion 213 located beneath a rear end's bottom edge of the top gun-body 21 is engaged with a combining hole 221 of the bottom gun-body 22 by means of a pin (not shown). A combining hole 212 at a front end's bottom edge of the top gun-body 21 is also engaged with a combining hole 222 of the bottom gun-body 22 by means of a pin (not shown). However, since a rear end's circumference 214 of the top gun-body 21 is directly in contact with a rear end's circumference 223 of the bottom gun-body 22 (Figures 3 and 4) without any fastening mechanism interfaced, the combination of the top and the bottom gun-body is somewhat loosened, and it is especially true for a resilient plastic gun body that would inevitably affect the accuracy and stability of a shot. Besides, the protrusion 213 of the top gun-body 21 is liable to get deformed or damaged when a toy gun is carelessly dropped to strike the floor.

SUMMARY OF THE INVENTION

[0003] The primary object of the present invention is to provide an improved structure of toy gun, in which the combination of a top and a bottom gun-body can be effectively enhanced by forming a plurality of protrusions on a rear end's circumference of the top gun-body to be inserted and fastened to a rear end's inner

edge of the bottom gun-body, so that the shooting accuracy and stability of the toy gun could be significantly improved as well as an accidental falling of the toy gun that may damage the protrusions at the rear end's bottom edge of the top gun-body could be effectively prevented.

[0004] For more detailed information regarding advantages or features of the present invention, at least an example of preferred embodiment will be described below with reference to the annexed drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0005] The related drawings in connection with the detailed description of the present invention to be made later are described briefly as follows, in which:

[0006] Figure 1 is a schematic view showing the basic structure of toy gun;

[0007] Figure 2 is a perspective view showing the structure of gun body of a toy gun of the present invention;

[0008] Figure 3 is an exploded view showing gun body of a conventional toy gun;

[0009] Figure 4 is a cutaway sectional view showing a combined top gun-body and bottom gun-body of a conventional toy gun;

[0010] Figure 5 is an exploded view of a preferred embodiment of gun body of the present invention; and

[0011] Figure 6 is a cutaway sectional view showing a preferred embodiment of combined top gun-body and bottom gun-body of the toy gun of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0012] As illustrated in Figures 5 and 6, two pieces of arcuate protrusions **215** are formed on a rear end's circumference **214** of a top gun-body **21** for being inserted to engage with a rear end's inner edge **224** of a bottom gun-body **22** in order to increase combining points of the top and the bottom gun body to enhance the stability of combination of those two gun bodies. The outer edge of the arcuate protrusions **215** is designed in shape to mate with the rear end's inner edge **224** of the bottom

gun-body 22 for improving the combination stability of the gun bodies.

[0013] The interactive relationships among the components of the present invention will be described below in detail.

[0014] A combining hole 211 of a protrusion 213 located beneath a rear end's bottom edge of the top gun-body 21 is engaged with a combining hole 221 of the bottom gun-body 22 by means of a pin. A combining hole 212 at a front end's bottom edge of the top gun-body 21 is also engaged with a combining hole 222 of the bottom gun-body 22 by means of a pin. The two arcuate protrusions 215 on the rear end's circumference 214 of the top gun-body 21 are meant for being inserted and fastened to the rear end's inner edge 224 of the bottom gun-body 22 (Figure 6) so that the number of combining point between the rear end of the top gun-body 21 and the bottom gun-body 22 is increased from two that is commonly observed in the prior art to four in the present invention to thereby stabilize the combination of the top and bottom gun-bodies 21, 22 and accordingly heighten the shooting accuracy and prevent the toy gun from falling to the floor and breaking the protrusions 213 at the rear end's bottom edge of the top gun-body 21.

[0015] In the above described, at least one preferred embodiment has been described in detail with reference to the drawings annexed, and it is apparent that numerous changes or modifications may be made without departing from the true spirit and scope thereof, as set forth in the claims below.